

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-37. (Cancelled)

38. (New) A method for vineyard mechanization, comprising:
mechanical pruning using a mechanical pruner;
shoot thinning using a mechanical thinner; and
fruit thinning using a mechanical thinner.

39. (New) A method according to claim 38, further comprising harvesting using a mechanical harvester.

40. (New) A method according to claim 38, wherein the shoot thinning comprises using a striking tool.

41. (New) A method according to claim 38, wherein the pruning comprises using a cutting tool.

42. (New) A method according to claim 41, wherein the cutting tool comprises a cutting bar.

43. (New) A method according to claim 39, wherein the harvesting comprises using a shaker tool.

44. (New) A method according to claim 39, wherein the shoot thinning comprises using a striking tool, wherein the pruning comprises using a cutting tool, and wherein the harvesting comprises using a shaker tool.

45. (New) A method according to claim 44, wherein the cutting tool comprises a cutting bar.

46. (New) A method according to claim 44, wherein the striking tool comprises a plurality of striker elements.
47. (New) A method for vineyard mechanization according to claim 38, further comprising leaf removal, wherein said leaf removal includes using a mechanical device to remove excess leaves in a fruiting zone.
48. (New) A method for mechanizing a vineyard and which at least substantially maintains fruit quality, comprising:
- mechanical pruning with a dedicated mechanical pruning tool;
 - mechanical shoot thinning with a dedicated mechanical shoot thinning tool; and
 - mechanical harvesting with a dedicated mechanical harvesting tool.
49. (New) A mechanization method for grapes trained on single curtain trellis systems, comprising:
- pruning using a mechanical pruner;
 - shoot thinning using a thinning unit; and
 - fruit thinning using a thinning unit.
50. (New) A mechanization method according to claim 49, further comprising harvesting using a mechanical harvester.
51. (New) A mechanization method according to claim 49, further comprising canopy adjustment by removing a portion of the canopy foliage to allow for movement of air and light into a portion of the canopy.
52. (New) A mechanization method for grapes trained on GDC trellis and GDC-like canopy systems, comprising:
- pruning using a mechanical pruner;
 - shoot thinning with a shoot thinner;
 - removing any excess fruit using a mechanical fruit thinner;

opening centers with a mechanical unit; and
keeping centers clean using a mechanical unit.

53. (New) A mechanization method according to claim 52, further comprising harvesting using mechanical harvester.

54. (New) A mechanization method according to claim 52, further comprising shoot positioning using a mechanical shoot positioner to position shoots.

55. (New) A mechanization method according to claim 52, wherein opening centers comprises using a slapper unit.

56. (New) A mechanization method according to claim 52, wherein keeping centers clean comprises using a breaker unit.

57. (New) A mechanization method according to claim 52, wherein shoot thinning comprises using a pruner unit.

58. (New) A mechanization method for grapes produced on divided canopy trellises, comprising:

pruning using a mechanical pruner;
shoot thinning using a mechanical shoot thinner;
removing any excess fruit with a mechanical fruit thinner;
leaf removal using a leaf removal machine; and
breaking the centers open using a mechanical device.

59. (New) A mechanization method for grapes according to claim 58, further comprising harvesting using a mechanical harvester.

60. (New) A mechanization method for grapes according to claim 58, wherein leaf removal removes excessive leaves in a fruiting zone on the outside of the canopy.

61. (New) A mechanization method for grapes according to claim 58, wherein breaking centers comprises using a slapper or breaker unit.
62. (New) A mechanization method for grapes according to claim 58, wherein pruning comprises summer pruning using a pruning machine to cut sides and tops.
63. (New) A mechanization method of grapes trained to a high wire single cordon trellis system, comprising:
- shoot thinning using a shoot thinner;
 - removing any excess fruit with a mechanical fruit thinning device;
 - canopy removal in vigorous, mature vineyards in cool and/or humid regions, by removing the center top with a slapper unit adapted to remove said top;
 - minimal pruning using a pruning unit; and
 - harvesting using a mechanical harvester.
64. (New) A mechanization method for grapes produced on a California T-trellis, comprising:
- dormant pruning using a mechanical pruner;
 - shoot thinning using a shoot thinner;
 - removing any excess fruit with a fruit thinner;
 - early leaf removal to expose fruit to sunlight and acclimate grape skins to sunlight exposure using a leaf remover machine adapted to remove leaves; and
 - harvesting using a mechanical harvester.
65. (New) A mechanization method for grapes produced on vertical moveable catch wires, comprising:
- dormant pruning using a mechanical pruner;
 - shoot thinning using a shoot thinner;
 - removing any excess fruit with a mechanical device adapted to remove excess fruit;
 - leaf removal using machine to remove excessive leaves;

pruning in the summertime with a pruner unit; and
harvesting using a mechanical harvester.

66. (New) A mechanization method for grapes produced on Smart-Dyson Ballerina trellis systems, comprising:

dormant pruning using a mechanical pruner adapted to prune on the upper part of the ballerina and a pruning unit adapted to prune on the lower part of the ballerina;

shoot thinning using a first shoot thinner adapted to shoot thin on the upper part of the ballerina, and using a second shoot thinner adapted to shoot thin on the lower part of the ballerina if needed;

removing any excess fruit from the upper part of the ballerina with a fruit thinner, any excess fruit on the lower part of the ballerina with a fruit thinner having different top and bottom settings;

leaf removal using a leaf removal machine adapted to remove leaves on the upper part of the ballerina trellis and using a leaf removal unit on the lower portion to remove leaves;

summer pruning the upper part of the ballerina with a pruner unit, trimming all shoots on the lower part of the before harvest with a pruner unit; and

harvesting with a mechanical harvester.

67. (New) A mechanization system for mechanizing a vineyard and which at least substantially maintains fruit quality, comprising:

a dedicated mechanical pruning tool;

a dedicated mechanical shoot thinning tool; and

a dedicated mechanical harvesting tool.

68. (New) A system according to claim 67, wherein the shoot thinning tool comprises a striking tool.

69. (New) A system according to claim 68, wherein the striking tool comprises a brush.

70. (New) A system according to claim 67, wherein the pruning tool comprises a cutting tool.
71. (New) A system according to claim 70, wherein the cutting tool comprises a cutting bar.
72. (New) A system according to claim 70, wherein the harvesting tool comprises a shaker tool.
73. (New) A system according to claim 70, wherein the shoot thinning tool comprises a striking tool, wherein the pruning tool comprises a cutting tool, and wherein the harvesting tool comprises a shaker tool.
74. (New) A system according to claim 73, wherein the cutting tool comprises a cutting bar.
75. (New) A system according to claim 73, wherein the striking tool comprises a plurality of striker elements.
76. (New) A method for mechanizing a vineyard and which at least substantially maintains fruit quality, comprising:
mechanical pruning with a dedicated mechanical pruning tool;
mechanical shoot thinning with a dedicated mechanical shoot thinning tool; and
mechanical fruit thinning with a dedicated fruit thinning tool.
77. (New) A method according to claim 76, further comprising mechanical harvesting with a dedicated mechanical harvesting tool.
78. (New) A method for mechanizing a vineyard and which at least substantially maintains fruit quality, comprising:
mechanical pruning with a dedicated mechanical pruning tool;
mechanical shoot thinning with a dedicated mechanical shoot thinning tool; and
mechanical fruit thinning with a dedicated fruit thinning tool;

wherein in the vineyard comprises grapes trained on trellis systems selected from the group consisting of: single curtain trellis systems, GDC trellis and GDC-like canopy systems, divided canopy trellis systems, high wire single cordon trellis systems, California T-trellis systems, vertical movable catch wire systems, divided canopy trellis systems, and Smart-Dyson Ballerina trellis systems.